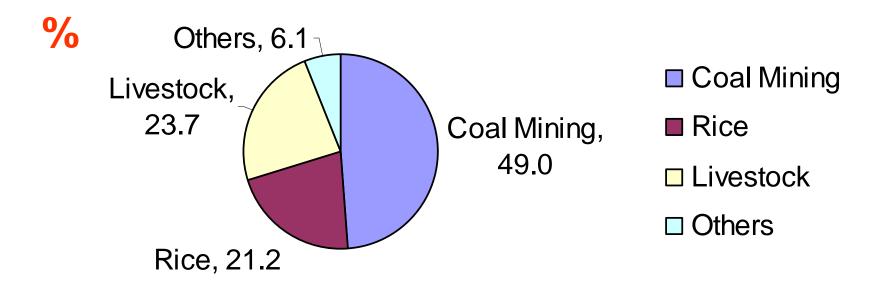
Methane (CH4) emissions in China from 1981 to 2010

Main sources of CH4 emission in China



In 2007, the total CH4 emission was estimated as **39.6 Tg** CH4 yr⁻¹. The main three sources of CH4 Coal Mining, Livestock, Rice contribute 94% of the total CH4 emission.

Data sources

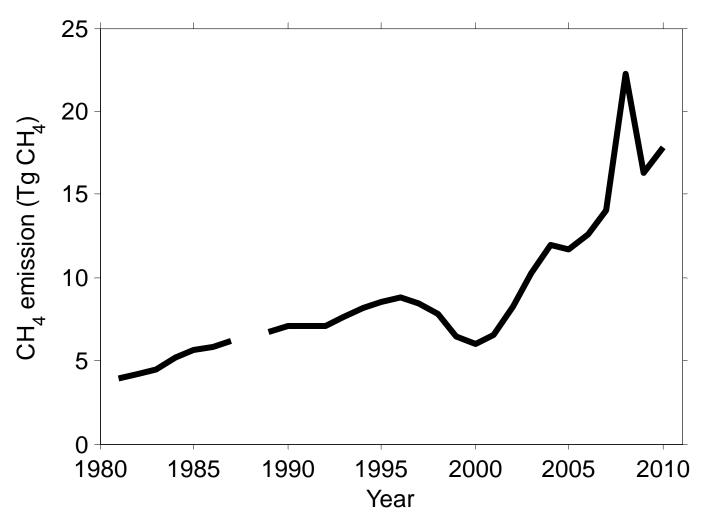
- China Agriculture Yearbook
- China Energy Statistical Yearbook
- China Environment Yearbook
- China Statistical Yearbook

Province Level yearly rice cultivation area, fertilization amount, livestock;

County level yearly raw coal production;

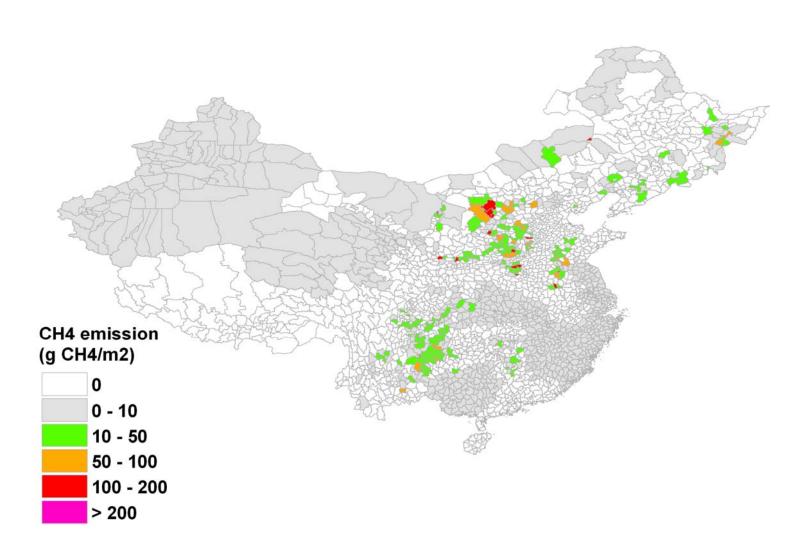
Emission factors from papers.

Total CH4 emission from coal Mining

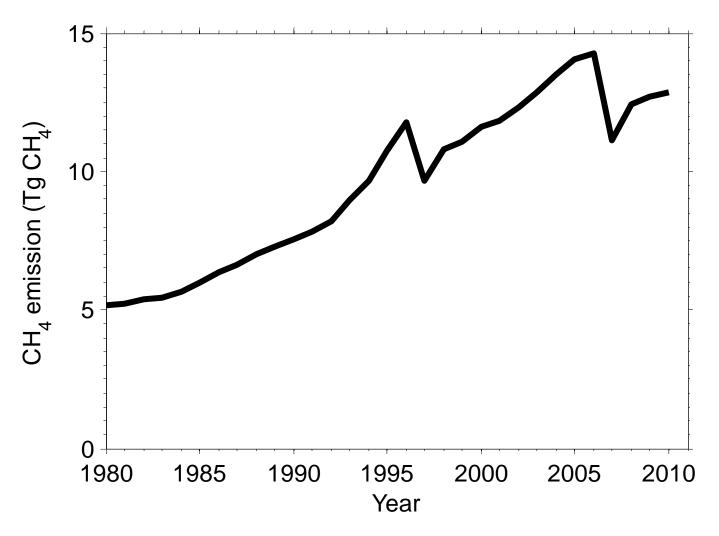


Methods from Zheng et al., 2005, Coal Safety

Spatial patterns of CH4 emission from coal mining in 2010

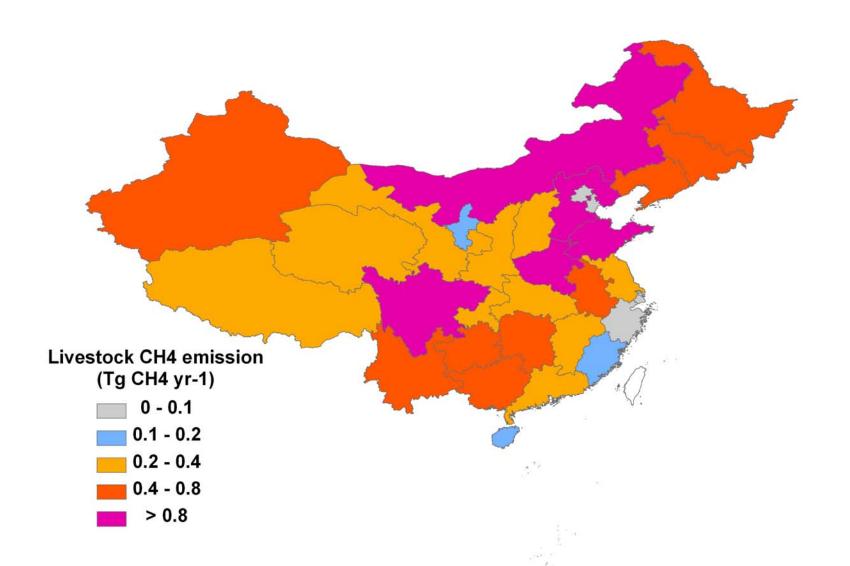


Total CH4 emission from livestock

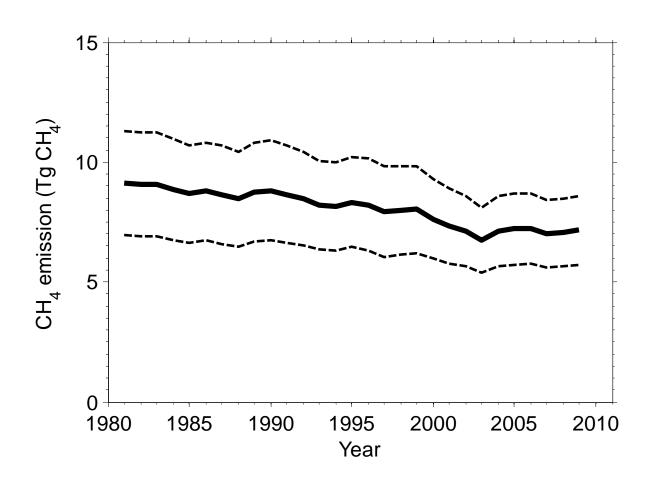


Methods from IPCC, 2006

Spatial patterns of CH4 emission from Livestock

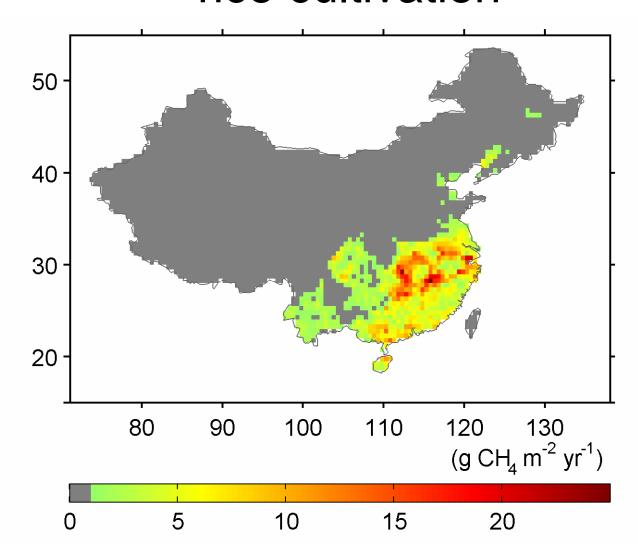


Total CH4 emission from Rice cultivation



Methods from Yan et al., 2003, JGR

Spatial patterns of CH4 emission from rice cultivation



Improvements

- Resolution ?
- Yearly ?
- Uncertainty?